

Title (en)  
LIGHT CONTROLLING APPARATUS.

Title (de)  
REGELVORRICHTUNG FÜR LICHT.

Title (fr)  
DISPOSITIF REGULATEUR DE LUMIERE.

Publication  
**EP 0155968 A4 19860922 (EN)**

Application  
**EP 84903194 A 19840824**

Priority  
JP 15529383 A 19830825

Abstract (en)  
[origin: WO8501122A1] In a light projector employing a lens (L), if the angle made between an optical axis (O-O) and the light ray passing through the lens (L) is represented by  $\theta(u)$ , the illuminance at a projection surface (20) is proportional to  $\cos^4 \theta(u)$ . Therefore, in order to obtain a uniform illuminance distribution at the projection surface, for example, a non-spherical reflecting mirror (11) is inserted into the lens system as a light-quantity distribution adjusting means which allows the light from a light source (10) to be projected at a light-quantity distribution which provides a reciprocal of  $\cos^4 \theta(u)$ .

IPC 1-7  
**G02B 27/18**

IPC 8 full level  
**G02B 27/18** (2006.01); **G03B 21/132** (2006.01); **G03B 21/20** (2006.01)

CPC (source: EP)  
**G03B 15/03** (2013.01); **G03B 21/132** (2013.01); **G03B 21/20** (2013.01); **G03B 21/2053** (2013.01); **G03B 2215/0525** (2013.01)

Citation (search report)  
• [X] US 3669538 A 19720613 - FOWLER RAYMOND L  
• See references of WO 8501122A1

Designated contracting state (EPC)  
CH DE FR GB LI NL SE

DOCDB simple family (publication)  
**WO 8501122 A1 19850314**; AU 3313984 A 19850329; EP 0155968 A1 19851002; EP 0155968 A4 19860922; JP S6046522 A 19850313

DOCDB simple family (application)  
**JP 8400406 W 19840824**; AU 3313984 A 19840824; EP 84903194 A 19840824; JP 15529383 A 19830825